/600
#2

RAW SEQUENCE LISTING   DATE: 04/26/2001
PATENT APPLICATION: US/09/771,009   TIME: 11:29:19

Input Set : A:\00801017200US00.txt
Output Set: N:\CRF3\04262001\I771009.raw

ENTERED

RECEIVED

MAY 0 9 2001

TECH CENTER 1600/2900

```
     4 <110> APPLICANT: HOLZBERG, STEVEN P.
     5        POGUE, GREGORY P.
     7 <120> TITLE OF INVENTION: CYTOPLASMIC INHIBITION OF GENE
     8        EXPRESSION AND EXPRESSION OF A FOREIGN PROTEIN IN A MONOCOT
     9        PLANT BY A PLANT VIRAL VECTOR
    11 <130> FILE REFERENCE: 0801017200US00
C-->13 <140> CURRENT APPLICATION NUMBER: US/09/771,009
    14 <141> CURRENT FILING DATE: 2001-01-25
    16 <160> NUMBER OF SEQ ID NOS: 74
    18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    20 <210> SEQ ID NO: 1
    21 <211> LENGTH: 17
    22 <212> TYPE: PRT
    23 <213> ORGANISM: Coxsackie virus
    25 <400> SEQUENCE: 1
    26 Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly
    27 1               5                   10                  15
    28 Pro
    31 <210> SEQ ID NO: 2
    32 <211> LENGTH: 20
    33 <212> TYPE: PRT
    34 <213> ORGANISM: Coxsackie virus
    36 <400> SEQUENCE: 2
    37 Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
    38 1               5                   10                  15
    39 Asn Leu Gly Pro
    40             20
    42 <210> SEQ ID NO: 3
    43 <211> LENGTH: 20
    44 <212> TYPE: PRT
    45 <213> ORGANISM: Coxsackie virus
    47 <400> SEQUENCE: 3
    48 Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
    49 1               5                   10                  15
    50 Asn Pro Arg Pro
    51             20
    53 <210> SEQ ID NO: 4
    54 <211> LENGTH: 20
    55 <212> TYPE: PRT
    56 <213> ORGANISM: Coxsackie virus
    58 <400> SEQUENCE: 4
    59 Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
    60 1               5                   10                  15
    61 Asn Pro Gly Pro
    62             20
    64 <210> SEQ ID NO: 5
    65 <211> LENGTH: 20
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RAW SEQUENCE LISTING   DATE: 04/26/2001
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Input Set : A:\00801017200US00.txt
Output Set: N:\CRF3\04262001\I771009.raw

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66 <212> TYPE: PRT
67 <213> ORGANISM: Coxsackie virus
69 <400> SEQUENCE: 5
70 Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
71 1               5                   10                  15
72 Asn Pro Gly Pro
73              20
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 20
77 <212> TYPE: PRT
78 <213> ORGANISM: Coxsackie virus
80 <400> SEQUENCE: 6
81 Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
82 1               5                   10                  15
83 Asn Pro Gly Pro
84              20
86 <210> SEQ ID NO: 7
87 <211> LENGTH: 20
88 <212> TYPE: PRT
89 <213> ORGANISM: Coxsackie virus
91 <400> SEQUENCE: 7
92 His Tyr Ala Gly Tyr Phe Ala Asp Leu Leu Ile His Asp Ile Glu Thr
93 1               5                   10                  15
94 Asn Pro Gly Pro
95              20
97 <210> SEQ ID NO: 8
98 <211> LENGTH: 20
99 <212> TYPE: PRT
100 <213> ORGANISM: Coxsackie virus
102 <400> SEQUENCE: 8
103 His Tyr Ala Gly Tyr Phe Ser Asp Leu Leu Ile His Asp Val Glu Thr
104 1               5                   10                  15
105 Asn Pro Gly Pro
106              20
108 <210> SEQ ID NO: 9
109 <211> LENGTH: 20
110 <212> TYPE: PRT
111 <213> ORGANISM: Coxsackie virus
113 <400> SEQUENCE: 9
114 Tyr His Ala Asp Tyr Tyr Lys Gln Arg Leu Ile His Asp Val Glu Met
115 1               5                   10                  15
116 Asn Pro Gly Pro
117              20
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 19
121 <212> TYPE: PRT
122 <213> ORGANISM: Coxsackie virus
124 <400> SEQUENCE: 10
125 Gln Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
```

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Input Set : A:\00801017200US00.txt
Output Set: N:\CRF3\04262001\I771009.raw

```
126  1                5                10                15
127 Asn Pro Gly
130 <210> SEQ ID NO: 11
131 <211> LENGTH: 28
132 <212> TYPE: DNA
133 <213> ORGANISM: Barley stripe mosaic virus
135 <400> SEQUENCE: 11
136 cttcttccgt tgctagctaa aaaaaaaa                                    28
138 <210> SEQ ID NO: 12
139 <211> LENGTH: 21
140 <212> TYPE: DNA
141 <213> ORGANISM: Barley stripe mosaic virus
143 <400> SEQUENCE: 12
144 agttacttct tgaatttctc c                                           21
146 <210> SEQ ID NO: 13
147 <211> LENGTH: 39
148 <212> TYPE: DNA
149 <213> ORGANISM: Barley stripe mosaic virus
151 <400> SEQUENCE: 13
152 tatagcgcgc atttaaattg gtcttccctt gggggaccg                        39
154 <210> SEQ ID NO: 14
155 <211> LENGTH: 49
156 <212> TYPE: DNA
157 <213> ORGANISM: Saccharomyces cerevisiae
159 <400> SEQUENCE: 14
160 tatgctagct gattaattaa gtcgacgagc tgatttaaca aattttaac             49
162 <210> SEQ ID NO: 15
163 <211> LENGTH: 44
164 <212> TYPE: DNA
165 <213> ORGANISM: Saccharomyces cerevisiae
167 <400> SEQUENCE: 15
168 tatgctagct gagcggccgc gcacgtgtca gtcctgctcc tcgg                  44
170 <210> SEQ ID NO: 16
171 <211> LENGTH: 46
172 <212> TYPE: DNA
173 <213> ORGANISM: Barley stripe mosaic virus
175 <400> SEQUENCE: 16
176 tatactagtt taattaagtc gaccatggct agcaaaggag aagaac               46
178 <210> SEQ ID NO: 17
179 <211> LENGTH: 44
180 <212> TYPE: DNA
181 <213> ORGANISM: Barley stripe mosaic virus
183 <400> SEQUENCE: 17
184 tatactagtt gagcggccgc ttatttgtag agctcatcca tgcc                 44
186 <210> SEQ ID NO: 18
187 <211> LENGTH: 43
188 <212> TYPE: DNA
189 <213> ORGANISM: Barley stripe mosaic
191 <400> SEQUENCE: 18
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RAW SEQUENCE LISTING   DATE: 04/26/2001
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Input Set : A:\00801017200US00.txt
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```
192 tatagagctc tacaaatcta gaatggctac tttctcttgt gtg              43
194 <210> SEQ ID NO: 19
195 <211> LENGTH: 21
196 <212> TYPE: DNA
197 <213> ORGANISM: Barley stripe mosaic virus
199 <400> SEQUENCE: 19
200 agagtccgtt aagattcatg g                                       21
202 <210> SEQ ID NO: 20
203 <211> LENGTH: 30
204 <212> TYPE: DNA
205 <213> ORGANISM: Tobacco mosaic virus
207 <400> SEQUENCE: 20
208 cattaattaa gatgatggct agcaaaggag                              30
210 <210> SEQ ID NO: 21
211 <211> LENGTH: 112
212 <212> TYPE: DNA
213 <213> ORGANISM: Tobacco mosaic virus
215 <400> SEQUENCE: 21
216 atatctagac ctaggaccag ggttagattc cacgtcaccc gccaacttca gcaaatcaaa   60
217 attcaacagc tgtttgtaga gctcagcggc cgccttgtat agctcatcca tg         112
219 <210> SEQ ID NO: 22
220 <211> LENGTH: 98
221 <212> TYPE: DNA
222 <213> ORGANISM: Tobacco mosaic virus
224 <400> SEQUENCE: 22
225 tatactagtc agctgttgaa ttttgatttg ctgaagttgg cgggtgacgt ggaatctaac   60
226 cctggtcctg tcgacaaagg agaagaactt ttcactgg                         98
228 <210> SEQ ID NO: 23
229 <211> LENGTH: 49
230 <212> TYPE: DNA
231 <213> ORGANISM: Tobacco mosaic virus
233 <400> SEQUENCE: 23
234 tatgctagcg atcaattagc ggccgcttat ttgtagagct catccatgc            49
236 <210> SEQ ID NO: 24
237 <211> LENGTH: 39
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 24
242 ggccgcttat ccgtatgatg ttccggatta tgccgagct                       39
244 <210> SEQ ID NO: 25
245 <211> LENGTH: 31
246 <212> TYPE: DNA
247 <213> ORGANISM: Homo sapiens
249 <400> SEQUENCE: 25
250 cggcataatc cggaacatca tacggataag c                               31
252 <210> SEQ ID NO: 26
253 <211> LENGTH: 42
254 <212> TYPE: DNA
255 <213> ORGANISM: Chicken
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RAW SEQUENCE LISTING   DATE: 04/26/2001
PATENT APPLICATION: US/09/771,009   TIME: 11:29:19

Input Set : A:\00801017200US00.txt
Output Set: N:\CRF3\04262001\I771009.raw

```
257 <400> SEQUENCE: 26
258 ggccgctgaa caaaagctta tctctgagga agatcttgag ct                    42
260 <210> SEQ ID NO: 27
261 <211> LENGTH: 34
262 <212> TYPE: DNA
263 <213> ORGANISM: Chicken
265 <400> SEQUENCE: 27
266 caagatcttc ctcagagata agcttttgtt cagc                             34
268 <210> SEQ ID NO: 28
269 <211> LENGTH: 39
270 <212> TYPE: DNA
271 <213> ORGANISM: Cnidaria
273 <400> SEQUENCE: 28
274 ggccgctcat catcaccatc accatcacca tcacgagct                        39
276 <210> SEQ ID NO: 29
277 <211> LENGTH: 31
278 <212> TYPE: DNA
279 <213> ORGANISM: Cnidaria
281 <400> SEQUENCE: 29
282 cgtgatggtg atggtgatgg tgatgatgag c                                31
284 <210> SEQ ID NO: 30
285 <211> LENGTH: 32
286 <212> TYPE: DNA
287 <213> ORGANISM: Brome mosaic virus
289 <400> SEQUENCE: 30
290 tatttaatta agatgtcgac ttcaggaact gg                               32
292 <210> SEQ ID NO: 31
293 <211> LENGTH: 30
294 <212> TYPE: DNA
295 <213> ORGANISM: Brome mosaic virus
297 <400> SEQUENCE: 31
298 tatgcggccg ccctataaag cggggtgaag                                  30
300 <210> SEQ ID NO: 32
301 <211> LENGTH: 33
302 <212> TYPE: DNA
303 <213> ORGANISM: Chicken
305 <400> SEQUENCE: 32
306 tatttaatta agatgacttg ccagacttac aac                              33
308 <210> SEQ ID NO: 33
309 <211> LENGTH: 31
310 <212> TYPE: DNA
311 <213> ORGANISM: Chicken
313 <400> SEQUENCE: 33
314 tatgcggccg cgcaattgca tctcctctga g                                31
316 <210> SEQ ID NO: 34
317 <211> LENGTH: 34
318 <212> TYPE: DNA
319 <213> ORGANISM: Bovine
321 <400> SEQUENCE: 34
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VERIFICATION SUMMARY   DATE: 04/26/2001
PATENT APPLICATION: **US/09/771,009**   TIME: 11:29:20

Input Set : **A:\00801017200US00.txt**
Output Set: **N:\CRF3\04262001\I771009.raw**

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number